



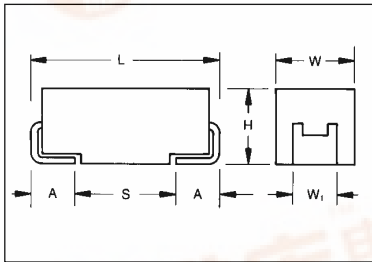
# TAJ Series



The TAJ standard series encompasses the five key sizes recognized by major OEMs throughout the world. The V case size has been added to the TAJ range to allow high CVs to be offered. The

operational temperature is  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  at rated voltage and up to  $+125^{\circ}\text{C}$  with voltage derating in applications utilizing recommended series resistance.

## CASE DIMENSIONS: millimeters (inches)



For part marking see page 48

Code	EIA Code	L±0.2 (0.008)	W+0.2 (0.008) -0.1 (0.004)	H+0.2 (0.008) -0.1 (0.004)	W <sub>1</sub> ±0.2 (0.008)	A+0.3 (0.012) -0.2 (0.008)	S Min.
A	3216	3.2 (0.126)	1.6 (0.063)	1.6 (0.063)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
B	3528	3.5 (0.138)	2.8 (0.110)	1.9 (0.075)	2.2 (0.087)	0.8 (0.031)	1.4 (0.055)
C	6032	6.0 (0.236)	3.2 (0.126)	2.6 (0.102)	2.2 (0.087)	1.3 (0.051)	2.9 (0.114)
D	7343	7.3 (0.287)	4.3 (0.169)	2.9 (0.114)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
E	7343H	7.3 (0.287)	4.3 (0.169)	4.1 (0.162)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
V	7361	7.3 (0.287)	6.1 (0.240)	3.45±0.3 (0.136±0.012)	3.1 (0.120)	1.4 (0.055)	4.4 (0.173)

W<sub>1</sub> dimension applies to the termination width for A dimensional area only.

## HOW TO ORDER

**TAJ**

Type

**C**

Case Code  
See table above

**106**

Capacitance Code  
pF code: 1st two digits represent significant figures  
3rd digit represents multiplier (number of zeros to follow)

**M**

Tolerance  
K=±10%  
M=±20%

**035**

Rated DC Voltage  
002=2Vdc  
004=4Vdc  
006=6.3Vdc  
010=10Vdc  
016=16Vdc  
020=20Vdc  
025=25Vdc  
035=35Vdc  
050=50Vdc

**R**

Packaging  
See Tape and Reel Packaging  
R=7" T/R  
S=13" T/R  
(see page 47)

**\*\***

Additional characters may be added for special requirements

## TECHNICAL SPECIFICATIONS

Technical Data:

All technical data relate to an ambient temperature of  $+25^{\circ}\text{C}$

Capacitance Range:

0.1μF to 680μF

Capacitance Tolerance:

±10%; ±20%

Rated Voltage (V <sub>R</sub> )	≧ +85°C:	2	4	6.3	10	16	20	25	35	50
Category Voltage (V <sub>C</sub> )	≧ +125°C:	1.3	2.7	4	7	10	13	17	23	33
Surge Voltage (V <sub>S</sub> )	≧ +85°C:	2.7	5.2	8	13	20	26	32	46	65
Surge Voltage (V <sub>S</sub> )	≧ +125°C:	1.7	3.2	5	8	12	16	20	28	40

Temperature Range:

$-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

Reliability:

1% per 1000 hours at  $85^{\circ}\text{C}$  with 0.1Ω/V series impedance, 60% confidence level

Qualification

CECC 30801 - 005 issue 2  
EIA 535BAAC



# TAJ Series



## CAPACITANCE AND RATED VOLTAGE, $V_R$ (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated voltage ( $V_R$ ) to 85°C								
$\mu\text{F}$	Code	2V (F)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.10	104								Ⓐ	Ⓐ
0.15	154								Ⓐ	Ⓐ/Ⓑ
0.22	224								Ⓐ	Ⓐ/Ⓑ
0.33	334								Ⓐ	Ⓑ
0.47	474							A	Ⓐ/Ⓑ	Ⓒ
0.68	684						Ⓐ	A	Ⓐ/Ⓑ	Ⓒ
1.0	105					Ⓐ	A	A	A/B	C
1.5	155				Ⓐ	Ⓐ	A	A/B	A/B/C	C/D
2.2	225			Ⓐ	Ⓐ	A/Ⓑ	A/B	A/B	B/C	D
3.3	335			Ⓐ	Ⓐ	A/Ⓑ	A/B	Ⓑ/Ⓒ	B/C	D
4.7	475			Ⓐ	A/Ⓑ	A/B	A/B/Ⓒ	B/Ⓒ	B/C/D	D
6.8	685			Ⓐ/Ⓑ	A/Ⓑ	A/B/Ⓒ	B/C	B/C	C/D	D
10	106		Ⓐ	Ⓐ/Ⓑ	A/Ⓑ/Ⓒ	A/B/C	B/C	C/D	C/D	
15	156		Ⓐ/Ⓑ	A/Ⓑ/Ⓒ	A/B/Ⓒ	B/C	B/C/Ⓓ	C/D	C/D	
22	226		Ⓐ/Ⓑ	A/Ⓑ/Ⓒ	Ⓐ/Ⓑ/Ⓒ/Ⓓ	B/C/D	B/C/D	C/D	C/D	
33	336		A/Ⓑ	A/Ⓑ/Ⓒ	B/C/Ⓓ	Ⓑ/Ⓒ/Ⓓ	C/D	D/E	D	
47	476	A	Ⓐ/Ⓑ	B/C/Ⓓ	B/C/Ⓓ	C/D	Ⓒ/Ⓓ	D	E	
68	686	Ⓐ	Ⓑ/Ⓒ	B/C/Ⓓ	C/Ⓓ	Ⓒ/Ⓓ/Ⓔ	D/E	E/V		
100	107		B/Ⓒ	Ⓑ/Ⓒ/Ⓓ	C/D	D/E	Ⓓ/Ⓔ/Ⓕ			
150	157	B	Ⓑ	C/D	Ⓒ/Ⓓ/Ⓔ	D	Ⓓ			
220	227	Ⓑ	C/Ⓓ	C/D/Ⓔ	D/E	Ⓓ/Ⓔ/Ⓕ	Ⓓ			
330	337	Ⓒ	Ⓔ	E	D/E/V	Ⓓ				
470	477		Ⓓ/Ⓔ	D/E/V	E/V	Ⓔ				
680	687		Ⓓ/Ⓔ	Ⓔ	Ⓔ	Ⓔ				
1000	108	Ⓓ	Ⓔ							
1500	158	Ⓔ								

● = In Development

○ = Non Preferred code – AVX reserves the right to supply higher rated voltage parts in the same case size.

# TAJ Series



## RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance $\mu\text{F}$	DCL ( $\mu\text{A}$ ) Max.	DF % Max.	ESR max. ( $\Omega$ ) @ 100 kHz
<b>Voltage/Code 2 volt @ 85°C (1.2 volt @ 125°C) / F</b>					
TAJA476*002#	A	47	0.9	6	3.0
TAJB157*002#	B	150	3.0	10	1.6
<b>Voltage/Code 4 volt @ 85°C (2.5 volt @ 125°C) / G</b>					
† TAJA106*004#	A	10	0.5	6	6.0
† TAJA156*004#	A	15	0.6	6	4.0
† TAJB156*004#	B	15	0.6	6	3.0
† TAJA226*004#	A	22	0.9	6	3.5
† TAJA336*004#	A	33	1.3	6	3.0
† TAJB336*004#	B	33	1.3	6	2.8
† TAJB476*004#	B	47	1.9	6	2.4
† TAJB686*004#	B	68	2.7	6	1.8
† TAJC686*004#	C	68	2.7	6	1.6
† TAJB107*004#	B	100	4.0	8	1.6
† TAJC107*004#	C	100	4.0	6	1.3
† TAJC227*004#	C	220	8.8	8	1.2
† TAJD227*004#	D	220	8.8	8	0.9
† TAJE337*004#	E	330	13.2	8	0.9
† TAJE687M004#	E	680	27.2	14	0.9
<b>Voltage/Code 6.3 volt @ 85°C (4 volt @ 125°C) / J</b>					
† TAJA225*006#	A	2.2	0.5	6	9.0
† TAJA335*006#	A	3.3	0.5	6	7.0
† TAJA475*006#	A	4.7	0.5	6	6.0
† TAJA685*006#	A	6.8	0.5	6	5.0
† TAJB685*006#	B	6.8	0.5	6	4.0
† TAJA106*006#	A	10	0.6	6	4.0
† TAJB106*006#	B	10	0.6	6	3.0
† TAJA156*006#	A	15	1.0	6	3.5
† TAJB156*006#	B	15	1.0	6	2.5
† TAJA226*006#	A	22	1.4	6	3.0
† TAJB226*006#	B	22	1.4	6	2.5
† TAJC226*006#	C	22	1.4	6	2.0
† TAJA336*006#	A	33	2.1	8	2.5
† TAJB336*006#	B	33	2.1	6	2.2
† TAJC336*006#	C	33	2.1	6	1.8
† TAJB476*006#	B	47	3.0	6	2.0
† TAJC476*006#	C	47	3.0	6	1.6
† TAJD476*006#	D	47	3.0	6	1.1
† TAJB686*006#	B	68	4.3	8	1.8
† TAJC686*006#	C	68	4.3	6	1.5
† TAJD686*006#	D	68	4.3	6	0.9
† TAJC107*006#	C	100	6.3	6	0.9
† TAJD107*006#	D	100	6.3	6	0.9
† TAJC157*006#	C	150	9.5	6	1.3
† TAJD157*006#	D	150	9.5	6	0.9
† TAJC227*006#	C	220	13.9	8	1.2
† TAJD227*006#	D	220	13.9	8	0.9
† TAJE337*006#	E	330	20.8	8	0.9
† TAJD477M006#	D	470	29.6	12	0.9
† TAJE477M006#	E	470	29.6	10	0.9
† TAJV477*006#	V	470	29.6	10	0.9
† TAJE687M006#	E	680	42.8	10	0.5

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

\*Insert K for  $\pm 10\%$  and M for  $\pm 20\%$ .

#Insert R for 7" Reel, S for 13" Reel

† Non preferred - AVX reserves the right to supply a higher rated voltage in the same case size.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

AVX Part No.	Case Size	Capacitance $\mu\text{F}$	DCL ( $\mu\text{A}$ ) Max.	DF % Max.	ESR max. ( $\Omega$ ) @ 100 kHz
<b>Voltage/Code 10 volt @ 85°C (6.3 volt @ 125°C) / A</b>					
† TAJA155*010#	A	1.5	0.5	6	10.0
† TAJA225*010#	A	2.2	0.5	6	7.0
† TAJA335*010#	A	3.3	0.5	6	5.5
† TAJA475*010#	A	4.7	0.5	6	5.0
† TAJB475*010#	B	4.7	0.5	6	4.0
† TAJA685*010#	A	6.8	0.7	6	4.0
† TAJB685*010#	B	6.8	0.7	6	3.0
† TAJA106*010#	A	10	1.0	6	3.0
† TAJB106*010#	B	10	1.0	6	2.5
† TAJC106*010#	C	10	1.0	6	2.5
† TAJA156*010#	A	15	1.5	6	3.2
† TAJB156*010#	B	15	1.5	6	2.8
† TAJC156*010#	C	15	1.5	6	2.0
† TAJB226*010#	B	22	2.2	6	2.4
† TAJC226*010#	C	22	2.2	6	1.8
† TAJB336*010#	B	33	3.3	6	1.8
† TAJC336*010#	C	33	3.3	6	1.6
† TAJD336*010#	D	33	3.3	6	1.1
† TAJB476*010#	B	47	4.7	8	1.6
† TAJC476*010#	C	47	4.7	6	1.4
† TAJD476*010#	D	47	4.7	6	0.9
† TAJC686*010#	C	68	6.8	6	1.3
† TAJD686*010#	D	68	6.8	6	0.9
† TAJC107*010#	C	100	10.0	8	1.2
† TAJD107*010#	D	100	10.0	6	0.9
† TAJD157*010#	D	150	15.0	8	0.9
† TAJE157*010#	E	150	15.0	8	0.9
† TAJD227*010#	D	220	22.0	8	0.9
† TAJE227*010#	E	220	22.0	8	0.9
† TAJD337M010#	D	330	33.0	8	0.9
† TAJE337*010#	E	330	33.0	8	0.9
† TAJV337*010#	V	330	33.0	8	0.9
† TAJE477M010#	E	470	47.0	10	0.9
† TAJV477*010#	V	470	47.0	10	0.9
<b>Voltage/Code 16 volt @ 85°C (10 volt @ 125°C) / C</b>					
† TAJA105*016#	A	1.0	0.5	4	11.0
† TAJA155*016#	A	1.5	0.5	6	8.0
† TAJA225*016#	A	2.2	0.5	6	6.5
† TAJB225*016#	B	2.2	0.5	6	5.5
† TAJA335*016#	A	3.3	0.5	6	5.0
† TAJB335*016#	B	3.3	0.5	6	4.5
† TAJA475*016#	A	4.7	0.8	6	4.0
† TAJB475*016#	B	4.7	0.8	6	3.5
† TAJA685*016#	A	6.8	1.1	6	3.5
† TAJB685*016#	B	6.8	1.1	6	2.5
† TAJC685*016#	C	6.8	1.1	6	2.5
† TAJA106*016#	A	10	1.6	8	3.0
† TAJB106*016#	B	10	1.6	6	2.8
† TAJC106*016#	C	10	1.6	8	2.0
† TAJB156*016#	B	15	2.4	6	2.5
† TAJC156*016#	C	15	2.4	6	1.8
† TAJB226*016#	B	22	3.5	6	2.3
† TAJC226*016#	C	22	3.5	6	1.6
† TAJD226*016#	D	22	3.5	6	1.1
† TAJC336*016#	C	33	5.3	6	1.5
† TAJD336*016#	D	33	5.3	6	0.9
† TAJC476*016#	C	47	7.5	6	1.4
† TAJD476*016#	D	47	7.5	6	0.9
† TAJD686*016#	D	68	10.9	6	0.9
† TAJD107*016#	D	100	16.0	6	0.9
† TAJE107*016#	E	100	16.0	6	0.9
† TAJD157M016#	D	150	24.0	6	0.9
† TAJE227M016#	E	220	35.2	10	0.9
† TAJV227*016#	V	220	35.2	8	0.9

For parametric information on development codes, please contact your local AVX sales office.

# TAJ Series



## RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance $\mu\text{F}$	DCL ( $\mu\text{A}$ ) Max.	DF % Max.	ESR max. ( $\Omega$ ) @ 100 kHz
<b>Voltage/Code 20 volt @ 85°C (13 volt @ 125°C) / D</b>					
† TAJA684M020#	A	0.68	0.5	4	12.0
TAJA105*020#	A	1.0	0.5	4	9.0
TAJA155*020#	A	1.5	0.5	6	6.5
TAJA225*020#	A	2.2	0.5	6	5.3
TAJB225*020#	B	2.2	0.5	6	3.5
TAJA335*020#	A	3.3	0.7	6	4.5
TAJB335*020#	B	3.3	0.7	6	3.0
TAJA475*020#	A	4.7	0.9	6	4.0
TAJB475*020#	B	4.7	0.9	6	3.0
† TAJC475*020#	C	4.7	0.9	6	2.8
TAJB685*020#	B	6.8	1.4	6	2.5
TAJC685*020#	C	6.8	1.4	6	2.0
TAJB106*020#	B	10	2.0	6	2.1
TAJC106*020#	C	10	2.0	6	1.9
TAJB156*020#	B	15	3.0	6	2.0
TAJC156*020#	C	15	3.0	6	1.7
† TAJD156*020#	D	15	3.0	6	1.1
TAJB226*020#	B	22	4.4	6	1.8
TAJC226*020#	C	22	4.4	6	1.6
TAJD226*020#	D	22	4.4	6	0.9
TAJC336*020#	C	33	6.6	6	1.5
TAJD336*020#	D	33	6.6	6	0.9
TAJD476*020#	D	47	9.4	6	0.9
TAJD686*020#	D	68	13.6	6	0.9
TAJE686*020#	E	68	13.6	6	0.9
TAJE107M020#	E	100	20.0	6	0.9
TAJV107*020#	V	100	20.0	8	0.9
<b>Voltage/Code 25 volt @ 85°C (16 volt @ 125°C) / E</b>					
TAJA474M025#	A	0.47	0.5	4	14.0
TAJA684M025#	A	0.68	0.5	4	10.0
TAJA105*025#	A	1.0	0.5	4	8.0
TAJA155*025#	A	1.5	0.5	6	7.5
TAJB155*025#	B	1.5	0.5	6	5.0
TAJA225*025#	A	2.2	0.6	6	7.0
TAJB225*025#	B	2.2	0.6	6	4.5
† TAJB335*025#	B	3.3	0.8	6	3.5
TAJC335*025#	C	3.3	0.8	6	2.8
TAJB475*025#	B	4.7	1.2	6	2.8
† TAJC475*025#	C	4.7	1.2	6	2.4
TAJB685*025#	B	6.8	1.7	6	2.8
TAJC685*025#	C	6.8	1.7	6	2.0
TAJC106*025#	C	10	2.5	6	1.8
TAJD106*025#	D	10	2.5	6	1.2
TAJC156*025#	C	15	3.8	6	1.6
TAJD156*025#	D	15	3.8	6	1.0
TAJC226*025#	C	22	5.5	6	1.4
TAJD226*025#	D	22	5.5	6	0.9
TAJD336M025#	D	33	8.3	6	0.9
TAJE336*025#	E	33	8.3	6	0.9
TAJD476M025#	D	47	11.8	6	0.9
TAJE686M025#	E	68	17	6	0.9
TAJV686*025#	V	68	17	6	0.9

AVX Part No.	Case Size	Capacitance $\mu\text{F}$	DCL ( $\mu\text{A}$ ) Max.	DF % Max.	ESR max. ( $\Omega$ ) @ 100 kHz
<b>Voltage/Code 35 volt @ 85°C (23 volt @ 125°C) / V</b>					
† TAJA104M035#	A	0.1	0.5	4	24.0
† TAJA154M035#	A	0.15	0.5	4	21.0
† TAJA224M035#	A	0.22	0.5	4	18.0
† TAJA334M035#	A	0.33	0.5	4	15.0
† TAJA474M035#	A	0.47	0.5	4	12.0
† TAJB474M035#	B	0.47	0.5	4	10.0
† TAJA684M035#	A	0.68	0.5	4	8.0
† TAJB684M035#	B	0.68	0.5	4	8.0
TAJA105*035#	A	1.0	0.5	4	7.5
TAJB105*035#	B	1.0	0.5	4	6.5
TAJA155*035#	A	1.5	0.5	6	7.5
TAJB155*035#	B	1.5	0.5	6	5.2
TAJC155*035#	C	1.5	0.5	6	4.5
TAJB225*035#	B	2.2	0.8	6	4.2
TAJC225*035#	C	2.2	0.8	6	3.5
TAJB335*035#	B	3.3	1.2	6	3.5
TAJC335*035#	C	3.3	1.2	6	2.5
TAJB475*035#	B	4.7	1.6	6	3.1
TAJC475*035#	C	4.7	1.6	6	2.2
TAJD475*035#	D	4.7	1.6	6	1.5
TAJC685*035#	C	6.8	2.4	6	1.8
TAJD685*035#	D	6.8	2.4	6	1.3
TAJC106*035#	C	10.0	3.5	6	1.6
TAJD106*035#	D	10.0	3.5	6	1.0
TAJC156*035#	C	15.0	5.3	6	1.4
TAJD156*035#	D	15.0	5.3	6	0.9
TAJD226*035#	D	22.0	7.7	6	0.9
TAJE226*035#	E	22.0	7.7	6	0.9
TAJD336M035#	D	33.0	11.6	6	0.9
TAJE476M035#	E	47.0	16.5	6	0.9
<b>Voltage/Code 50 volt @ 85°C (33 volt @ 125°C) / T</b>					
† TAJA104M050#	A	0.1	0.5	4	22.0
† TAJA154M050#	A	0.15	0.5	4	15.0
† TAJB154M050#	B	0.15	0.5	4	17.0
† TAJA224M050#	A	0.22	0.5	4	18.0
† TAJB224M050#	B	0.22	0.5	4	14.0
† TAJB334M050#	B	0.33	0.5	4	12.0
† TAJC474M050#	C	0.47	0.5	4	8.0
† TAJC684M050#	C	0.68	0.5	4	7.0
TAJC105*050#	C	1.0	0.5	4	5.5
TAJC155*050#	C	1.5	0.8	6	4.5
TAJD155*050#	D	1.5	0.8	6	4.0
TAJD225*050#	D	2.2	1.1	6	2.5
TAJD335*050#	D	3.3	1.7	6	2.0
TAJD475*050#	D	4.7	2.4	6	1.4
TAJD685*050#	D	6.8	3.4	6	1.0

For parametric information on development codes, please contact your local AVX sales office.

#Insert R for 7" Reel, S for 13" Reel

† Non preferred - AVX reserves the right to supply a higher rated voltage in the same case size.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

\*Insert K for  $\pm 10\%$  and M for  $\pm 20\%$ .

#Insert R for 7" Reel, S for 13" Reel

† Non preferred - AVX reserves the right to supply a higher rated voltage in the same case size.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

# TAJ, THJ & TPS Marking

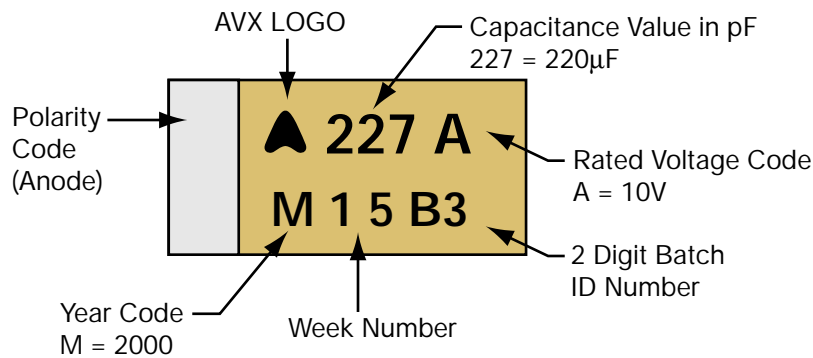


For TAJ & TPS & THJ, the positive end of body has videcon readable polarity marking as shown in the diagram. Bodies are marked by indelible laser marking on top surface with capacitance value, voltage and date of manufacture and batch ID number. R case is an exception due to the small size in which only the voltage and capacitance values are printed.

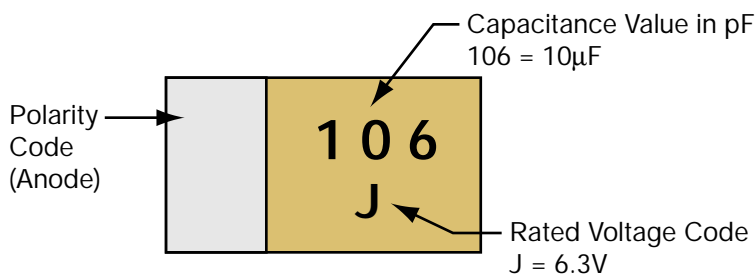
Year	Year Code
1999	L
2000	M
2001	N
2002	P

Voltage Code	Rated Voltage at 85°C
F	2
G	4
J	6.3
A	10
C	16
D	20
E	25
V	35
T	50

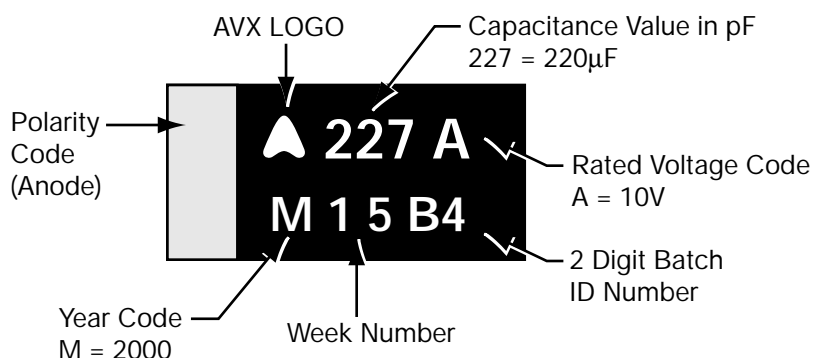
## TAJ & TPS - A, B, C, D, E, S, T, V, W, Y AND X CASE:



## TAJ - R CASE:



## THJ - A, B, C, D AND E CASE:



# TAJ, TPS, THJ & TAC Series



## Tape and Reel Packaging

Tape and reel packaging for automatic component placement.  
Please enter required Suffix on order. Bulk packaging is not available.

### TAJ, TPS AND TAC TAPING SUFFIX TABLE

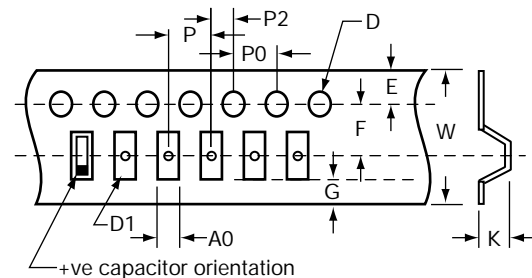
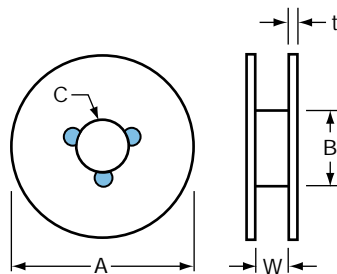
Case Size reference	Tape width mm	P mm	100mm (4") reel		180mm (7") reel		330mm (13") reel	
			Suffix	Qty.	Suffix	Qty.	Suffix	Qty.
A	8	4			R	2000	S	8000
B	8	4			R	2000	S	8000
C	12	8			R	500	S	3000
D	12	8			R	500	S	2500
E	12	8			R	400	S	1500
V	12	8			R	400	S	1500
R	8	4			R	2500	S	10000
S	8	4			R	2500	S	10000
T	8	4			R	2500	S	10000
W	12	8			R	1000	S	5000
Y	12	8			R	1000	S	4000
X	12	8			R	1000	S	5000
TACR	8	4	X	500	R	2500		
TACL	8	4	X	500	R	3500		

### TAPE SPECIFICATION

Tape dimensions comply to EIA 481-1  
Dimensions  $A_0$  and  $B_0$  of the pocket and the tape thickness,  $K$ , are dependent on the component size.  
Tape materials do not affect component solderability during storage. Carrier Tape Thickness <0.4mm.

### PLASTIC TAPE DIMENSIONS

Code	Ao	Bo	K	W	E	F	G	P	P2	Po	D	D1
A	1.83±0.1	3.57±0.1	1.87±0.1	8±0.3	1.75±0.1	3.5±0.05	0.75 min	4±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1+0.2-0.0
B	3.15±0.1	3.77±0.1	2.22±0.1	8±0.3	1.75±0.1	3.5±0.05	0.75 min	4±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1+0.2-0.0
C	3.45±0.1	6.4±0.1	2.92±0.1	12±0.3	1.75±0.1	5.5±0.05	0.75 min	8±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1.5+0.2-0.0
D	4.48±0.1	7.62±0.1	3.22±0.1	12±0.3	1.75±0.1	5.5±0.05	0.75 min	8±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1.5+0.2-0.0
E	4.50±0.1	7.5±0.1	4.5±0.1	12±0.3	1.75±0.1	5.5±0.05	0.75 min	8±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1.5+0.2-0.0
V	6.43±0.1	7.44±0.1	3.84±0.1	12±0.3	1.75±0.1	5.5±0.05	0.75 min	8±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1.5+0.2-0.0
W	3.57±0.1	6.4±0.1	1.65±0.1	12±0.3	1.75±0.1	5.5±0.05	0.75 min	8±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1.5+0.2-0.0
X	4.67±0.1	7.62±0.1	1.65±0.1	12±0.3	1.75±0.1	5.5±0.05	0.75 min	8±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1.5+0.2-0.0
Y	4.67±0.1	7.62±0.1	2.15±0.1	12±0.3	1.75±0.1	5.5±0.05	0.75 min	8±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1.5+0.2-0.0
R	1.65±0.1	2.45±0.1	1.3±0.1	8±0.3	1.75±0.1	3.5±0.05	0.75 min	4±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1+0.2-0.0
S	1.95±0.1	3.55±0.1	1.3±0.1	8±0.3	1.75±0.1	3.5±0.05	0.75 min	4±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1+0.2-0.0
T	3.20±0.1	3.8±0.1	1.35±0.1	8±0.3	1.75±0.1	3.5±0.05	0.75 min	4±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1+0.2-0.0
TACR	1.65±0.1	2.45±0.1	1.3±0.1	8±0.3	1.75±0.1	3.5±0.05	0.75 min	4±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1+0.2-0.0
TACL	1.10±0.1	2±0.1	1.1±0.1	8±0.3	1.75±0.1	3.5±0.05	0.75 min	4±0.1	2±0.05	4±0.1	1.5+0.2-0.0	1+0.2-0.0



### REEL DIMENSIONS

Code	Tape	A	B	C	W	t
R	12mm	180±2.0	50 min	13±0.5	12.4±1.5,-0	1.5±0.5
R	8mm	180±2.0	50 min	13±0.5	8.4±1.5,-0	1.5±0.5
S	12mm	330±2.0	50 min	13±0.5	12.4±1.5,-0	1.5±0.5
S	8mm	330±2.0	50 min	13±0.5	8.4±1.5,-0	1.5±0.5
X	8mm	100±2.0		13±0.5	8.4±1.5,-0	1.5±0.5

### Cover Tape Dimensions

Thickness: 75±25µm  
Width of tape:  
5.5mm + 0.2mm (8mm tape)  
9.5mm + 0.2mm (12mm tape)